

FCC Item 1.

1. The info submitted for this filing indicates this transmitter is a subscriber unit - located at the subscriber side of the link. Table 1 of 1.1307 requires a label to be attached to Part 21 MDS and Part 74 ITFS subscriber transceiver or transverter antennas to provide adequate notice on RF exposure and to reference applicable FCC rules on this label. Please review rules in 1.1307 and provide a copy of this label to be placed on the subscriber unit antenna, including supporting information for determining applicable minimum separation distance etc. based on the antennas used for the subscriber unit. Either measurement results or estimations may be used to support the info on the label. Please include the antenna info and also indicate the size of the label and its location on the antenna, it should be visible to persons exposed within the vicinity of the antenna.

Spike Reply to Item 1:

The following label will be placed on our Subscriber Antennas. The label is provided in a 1:1 scale. The dimensions are 2.3 cm wide by 9 cm long.

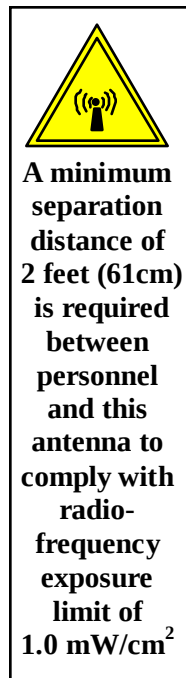


Figure 1. RF Exposure Warning Label

The minimum separation distance was calculated by using the following information.

Frequency: 2500 MHz

Antenna Gain: 24 dBi

Transceiver Output Power: 22 dBm

MPE Limit: 1.0 mW/cm<sup>2</sup>

The equation for calculating the power density from a known antenna is:

$$S = PG/(4\pi R^2)$$

P = power at the antenna terminals, mW

G = gain of the antenna, linear isotropic gain

R = distance, cm

Rearranging the equation to calculate the separation distance results in:

$$R = (PG/(4\pi S))^{1/2}$$

P = 22 dbm = 158.5 mW

G = 24dbi = 251

S = 1.0 mW/cm<sup>2</sup>

R = 56.3 cm = 22.15 inches

We rounded up to 24 inches = 2 feet = 61 cm.

The label will be placed directly on the antenna. Figures 2 and 3 show the location of the label on the subscriber antenna.

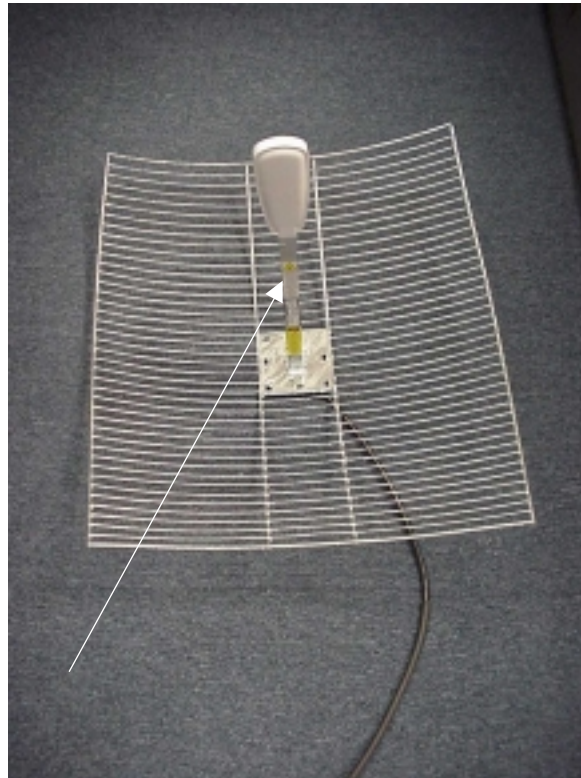


Figure 2. RF Exposure Label on the antenna.

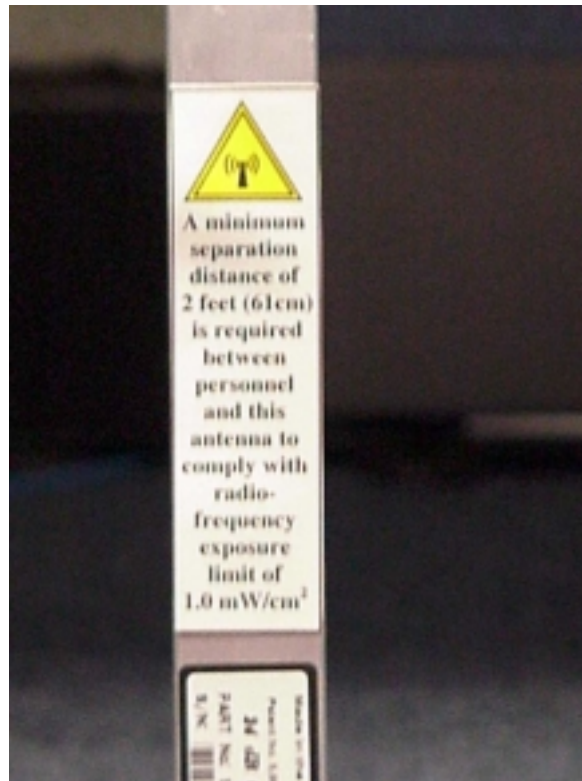


Figure 3. RF Exposure Label, Close Up

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FCC Item 2.

2. Only the RF exposure label is handled during equipment approval. RF exposure compliance for fixed transmitters are typically addressed at the time of site licensing or other similar licensing procedures, by the appropriate bureau(s). This will be indicated or clarified on the grant of equipment authorization to avoid confusion.

Spike Reply to Item 2:

Acknowledged.